

**IDENTIFICATION OF MATERIAL INCLUSIONS IN
PULP AND PAPER USING RAMAN SPECTROSCOPY**

ABSTRACT

Pulp and/or paper samples are scanned with a Laser Raman Spectroscopic probe,
10 utilizing Raman spectroscopic technology, to generate Raman spectroscopic images of all or
selected ones of the constituents and/or contaminants contained in the sample, to compare
the same with a library of Raman spectroscopic fingerprints of known constituents and/or
contaminants, and to identify and communicate data on all or selected ones of the
constituents and/or contaminants for purposes of controlling the paper making process and/or
15 determination of the quality of the paper produced.

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